

Safety Data Sheet

Grease GX-FL 00/000 - 400-000
EP-multipurpose lithium-based grease
according to Regulation (EC) No 1907/2006



SECTION 1:

Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Grease AF-2 NLGI 2 400-000

1.2. Details of the supplier of the safety data sheet

Company: Fritsche GmbH & Co. KG
Street: Eichenhöhe 10
Place: 21255 Kakenstorf, Germany

Telephone: +49 (0) 4186 888 290 Telefax:+49 (0) 4186 888 2999
e-mail: info@fritsche-gmbh.de
Contact: Technical Service Telephone:+49 (0) 4186 888 290

SECTION 2:

Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Label Regulation (EC) No. 1272/2008

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Do not handle until all safety precautions have been read and understood.

Discharge into the environment must be avoided.

SECTION 3:

Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Lithium soap lubricating grease

Contains: base oil, additive

Erfüllungsort für Lieferung und Zahlung ist Tostedt. Gerichtsstand ist Tostedt. Placement of fulfillment for duties arising from the contract is Tostedt.

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Hazardous components

Cas No	Chemical name			Quantity
	EC No	Indes No	REACH No	
	GHS Classification			
68425-15-0	Polysulfides di-tert-dodecyl			1 – 10 %
	270-335-7		01-2119540516-41	
	Aquatic Chronic 4, H413			

Full text of and H and EUH statements: see Section 16.

Further Information

Highly refined mineral oil; DMSO-extract < 3 % (IP 346).

SECTION 4:

First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!

Move victim out of danger zone.

Remove contaminated, saturated clothing immediately.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

No special measures are necessary.

Move victim to fresh air. Put victim at rest and keep warm.

Get medical advice/attention if you feel unwell.

In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

In case of skin irritation, consult a physician.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious).

Do NOT induce vomiting. Seek medical advice immediately.

No administration in cases of unconsciousness or cramps.

4.2. Most important symptoms and effects, both acute and delayed

Mixture related information: No information available.

In all cases of doubt, or when symptoms persist, seek medical advice.

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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Warning after ingestion: Caution if victim vomits: Risk of aspiration!

SECTION 5:

Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, Extinguishing powder, Carbon dioxide (CO₂).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to the escape of irritating gases and vapours.

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. Sulphur dioxide (SO₂).

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

In case of fire: Wear self-contained breathing apparatus. Full protective suit.

Additional information

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6:

Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Respiratory protection necessary at: aerosol or mist generation. (see section 8.)

Avoid contact with skin and eyes. Wear personal protection equipment. In case of leakage, eliminate all ignition sources.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

High slip hazard because of leaking or spilled product.

Take up mechanically, placing in appropriate containers for disposal.

Suitable material for taking up: Sand. diatomaceous earth. Universal binding agent.

Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Personal protection equipment: refer to chapter 8.

SECTION 7:

Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Avoid contact with skin and eyes.

Take off immediately all contaminated clothing.

For industrial purposes only.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Avoid oil mist

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Further information on handling

No special handling instructions are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Only use containers specifically approved for the substance/product.

Keep container tightly closed and in a well-ventilated place.

Always close containers tightly after the removal of product.

Recommended storage temperature: 5 - 30 °C. Do not store at temperatures over: 40 °C

Advice on storage compatibility

Do not store together with: Oxidizing agents. Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Protect against: heat. moisture. frost.

Protect against direct sunlight.

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7.3. Specific end use(s)

lubricating grease / observe technical data sheet.

SECTION 8:

Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

Air limit values: Für Ölnebel / oil mist.

5 mg/m³ Air. Limit value type (country of origin): US-OSHA PEL.

10 mg/m³ Air. Limit value type (country of origin): ACGIH STEL (USA).

8.2. Exposure controls

Appropriate engineering controls

No information available.

Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace.

Avoid contact with skin, eyes and clothes.

Protect skin by using skin protective cream.

Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use.

Wash hands before breaks and after work.

After cleaning apply high-fat content skin care cream.

Do not put any product-impregnated cleaning rags into your trouser pockets.

Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. (DIN EN 166)

In case of increasing hazard add: Eye-shade.

Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN):
DIN EN 420, DIN EN 374.

Suitable material: NBR (Nitrile rubber). FKM (fluororubber).

Required properties: liquid-tight.

penetration time (maximum wearing period): > 480 min.

Thickness of glove material: 0,4 mm

Before using check leak tightness / impermeability.

Skin protection

Wear suitable protective clothing. (Handling larger quantities.)

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at: exceeding exposure limit values, insufficient ventilation.
aerosol or mist generation.

Suitable respiratory protective equipment: A2/P2 Combination filter device (DIN EN 141), particulates filter device (DIN EN 143).

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Environmental exposure controls

No information available.

SECTION 9:

Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: "solid" grease

Colour: dark green

Odour: characteristic

pH-Value: not applicable

Changes in the physical state

Melting point: >120°C

Initial boiling point and boiling range: >250°C

drop point / drop range: >160°C °C DIN ISO 2176

Flash point: (base oil) > 170 °C ISO 2592

Explosive properties

not explosive.

Lower explosion limits: No data available. DIN 51649

Upper explosion limits: No data available. DIN 51649

Ignition temperature: No data available.

Oxidizing properties

No data available.

Vapour pressure (at 20 °C): < 0,1 hPa

Density (at 25°C): approx. 0,89 - 0,93 g/cm³

Water solubility (at 20 °C): not miscible/ partially miscible

Partition coefficient: no data available.

Viscosity / kinematic (at 40 °C, mineral oil.) ~ 155 mm²/s DIN 51562

9.2. Other information

none

SECTION 10:

Stability and reactivity

10.1. Reactivity

No risks worthy of mention.

10.2. Chemical stability

storage stability: Do not store at temperatures over: 40 °C

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10.3. Possibility of hazardous reactions

None, when handled and stored according to provisions.
Do not mix with: Oxidizing agents, strong.

10.4. Conditions to avoid

This material is combustible, but will not ignite readily.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.
In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. Sulphur dioxide (SO₂).

Further information

none

SECTION 11:

Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met.

Acute toxicity, oral dose LD₅₀ mg/kg/20000 Mixture related information: No information available.

Acute toxicity, dermal dose LD₅₀ mg/kg 5001 Mixture related information: No information available.

Irritation and corrosivity

Irritant effect on the skin: On short hand contact: Not an irritant.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Irritant effect on the eye: slightly irritant but not relevant for classification.

Sensitising effects

Respiratory or skin sensitisation: not sensitising. No known symptoms to date.

STOT-single exposure

No information available.

STOT-repeated exposure

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

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Carcinogenic/mutagenic/toxic effects for reproduction

The ingredients in this mixture do not meet the criteria for classification as CMR category 1 or 2. Highly refined mineral oil; DMSO-extract < 3 % (IP 346).

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

SECTION 12:

Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

Due to the consistency along with the low water solubility of the product a bioavailability is unlikely.

12.2. Persistence and degradability

Mixture related information: Not easily bio-degradable (according to OECD-criteria).

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

Due to the product's consistency dispersion into the environment is not possible.

12.5. Results of PBT and vPvB assessment

PBT: not applicable.

vPvB: not applicable.

12.6. Other adverse effects

Further remarks: none

Further information

Discharge into the environment must be avoided.

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

SECTION 13:

Disposal considerations

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13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains.

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)". Dispose of waste according to applicable legislation.

The waste key according to the European Waste Catalogue (EWC number) refers to the real wastes origin and therefore is not product- but use-oriented.

Consult the local waste disposal expert about waste disposal.

Waste disposal number of waste from residues/unused products

120112

WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats; hazardous waste

Waste disposal number of used product

120112

WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats; hazardous waste

Waste disposal number of contaminated packaging

150110

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

SECTION 14:

Transport information

Land transport (ADR/RID)

14.1. UN number: not relevant

14.2. UN proper shipping name: not relevant

14.3. Transport hazard class(es): not relevant

14.4. Packing group: not relevant

Other applicable information

Land transport:

Inland waterways transport (ADN):

Marine transport (IMDG)

no dangerous good transport regulation

no information available

no dangerous good transport regulation

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Air transport (ICAO-TI/IATA-DGR) : **no dangerous good transport regulation**

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Handling (Transport information): No special precautionary measures are necessary. See protective measures under point 7 and 8.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available.

Other applicable information

none

SECTION 15:

Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information, additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Water contaminating class (D): 1-slightly water contaminating

Additional information

Restricted to professional users.

The receiver of our product is singularly responsible for adhering to existing laws and regulations. Observe in addition any national regulations!

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16:

Other information

Relevant H and EUH statement (number and full text)

H413 May cause long lasting harmful effects to aquatic life.

EUH210 Safety data sheet available on request.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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